

**TONY LEMA LF ORDER NO. 95-129  
UPDATED WASTE DISCHARGE REQUIREMENTS**

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION**

**ORDER NO. 95-129  
UPDATED WASTE DISCHARGE REQUIREMENTS**

**TONY LEMA GOLF COURSE DISPOSAL SITE,  
CITY OF SAN LEANDRO, ALAMEDA COUNTY**

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board), finds that:

**DISCHARGER & SITE IDENTIFICATION**

1. Tony Lema Golf Course Disposal Site (Tony Lema LF) is owned by The City of San Leandro, the site's legal owner, hereinafter referred to as the discharger. The project site as shown on Attachment A, which is incorporated herein and made a part of this Order, is located in the City of San Leandro. The site is in Section 10, Township 4 South, Range 3 West of the Mount Diablo Baseline. The site's latitude and longitude are 37°40'40"N and 122°10'50"W, respectively.
2. In July 1993 and April 1994, combustible gas emissions were measured at groundwater monitoring wells and within drainage channels during a compliance inspection. No waste has been disposed of at the site since July 1977. The landfill closure plan was approved by the Regional Board on November 21, 1978. The landfill is currently classified as a closed, inactive Class III landfill.

**PURPOSE OF UPDATE ORDER**

3. The primary objectives of this order are to revise the groundwater, surface water and land monitoring programs, to evaluate the impact to water quality as a result of landfill gas migration, and to bring the site into compliance with the current regulations of Article 8, Title 23, Division 3, Chapter 15 of the California Code of Regulations.

**SITE DESCRIPTION**

4. The landfill is bounded to the east by a dredge spoil disposal site, a wetland on the side, San Francisco Bay on the western side and on the north by a flood control easement, the Ashland-Washington Canal. The entire area of the golf course is fenced to control access.

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**SITE HISTORY**

5. The Tony Lema LF evolved from an overall plan adopted by the San Leandro City Council in 1958 to acquire the entire 1,800 acre bay shoreline within the City of San Leandro from private ownership and develop it to a multi-purpose regional recreational facility. Major elements in this facility were to include a 500 berth small boat harbor, restaurants, a park, open space, a wildlife preserve, riding and hiking trails, and two golf courses.

The landfill accepted mainly household waste. The site was closed in November 1978.

6. The Board on November 21, 1978, adopted Waste Discharge Requirements (WDRs) Order No. 78-101. On January 20, 1982, Order No. 78-101 was revised by the adoption of Order No. 82-2 prescribing Waste Discharge Requirements for the postclosure maintenance and wastewater reclamation at the Tony Lema LF. This Order incorporates Order No. 82-2 in accordance with the California Code of Regulations, Title 23, Chapter 15, Article 5.
7. Emission of landfill gas was measured on July 29, 1993 during a joint compliance inspection by the RWQCB and the Alameda County Department of Environmental Health (LEA).

**WASTES AND THEIR CLASSIFICATION**

8. The disposal operation was restricted to household wastes, grass cuttings, tree trimmings, demolition wastes and solid industrial debris. The fill was constructed in two lifts, each of which consisted of several five to seven foot layers, compacted by using tractors and wheel compaction equipment.

**GEOLOGY**

9. The landfill area is situated in a former tideland area, on the bay mud. The bay mud sediments underlying the landfill site are composed of a dense silty clay material that exhibits low permeability. The bay mud extends from a depth of 15 to 40 feet. Underlying the bay mud sediments consisting of clay-sand mixtures with isolated sand lenses.

**SURFACE WATER AND GROUNDWATER**

10. **SURFACE WATER** - Runoff from rainfall flows along the surface and down through swales to their respective outlet points. Drainage from the swale outlets is carried through large culverts that ultimately reach San Francisco Bay.
11. **GROUNDWATER** - Groundwater elevation is at about mean sea level. The regional hydrogeologic conditions suggest that groundwater flow direction is towards the w

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direction of the San Francisco Bay. The groundwater flow direction in the bay mud is not established, but is assumed to be upward toward the refuse and outward toward the Bay.

12. **GROUNDWATER DEGRADATION** - Areas at greater risk for potential groundwater degradation are the bay mud and underlying sand lenses. The bay mud discharges to San Francisco Bay.
13. **BENEFICIAL USES** - Beneficial uses of the useable groundwater and the surrounding surface water of the Alameda County Flood Control Channel and the San Francisco Bay are:
  - a. Navigation;
  - b. Water contact recreation;
  - c. Non-contact water recreation;
  - d. Wildlife habitat;
  - e. Estuarine habitat;
  - f. Preservation of rare and endangered species;
  - g. Fish migration and spawning.
14. The present and potential beneficial uses of the deeper groundwater are as follows:
  - a. Domestic and municipal water supply;
  - b. Industrial process supply;
  - c. Agricultural supply.

**DESIGN OF WASTE MANAGEMENT UNIT**

15. Tony Lema LF is underlain by the bay mud and sand lenses. The landfilling operation at the site was performed by using tractor and wheel compaction equipment. About 150,000 yards of clay material of low permeability from the adjacent Marina channel dredged disposal was used as landfill cover.
16. The levees surrounding the site were constructed using bay mud material. The levee

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measured 30 to 50 feet wide at the base and 12 to 20 feet at the top. The levees were constructed to an elevation of 9 to 10 feet msl to prevent overflow that may occur during 100-year flood. The 100-year flood elevation at the site as determined by the Federal Flood Insurance Administration is 7.5 feet msl.

17. A landfill gas collection and recovery system installation plan is in progress.
18. The Regional Board adopted a revised Water Quality Plan for the San Francisco Bay Basin in December 17, 1986 and this Order implements the water quality objectives stated in that plan.

**MONITORING PROGRAM**

19. There are 4 existing groundwater monitoring wells at the site. These wells were screened at the base of refuse and are referred to as leachate wells GR1, GR2, GR3 and GR4 in this Order.
20. The discharger is required to conduct site monitoring as stated in Specifications B.10, B.11 and the Discharge Monitoring Program, Parts A & B as attached.
21. Surface water monitoring is conducted as part of current General Industrial Stormwater Discharge Permit (NPDES) and approved stormwater monitoring plan.
22. Unsaturated zone monitoring program is permitted where technically feasible, to satisfy the requirements of Article 5, Section 2550.7.
23. The discharger is authorized to analyze for the monitoring parameters as presented in Table A of the Discharge Monitoring Program for the Tony Lema LF.

**CALIFORNIA ENVIRONMENTAL QUALITY ACT.**

24. This site is exempted from the provision of the California Environmental Quality Act (CEQA) pursuant to Section 15308, Title 14 of the California Code of Regulation. However, any subsequent development of the closed landfill may not be exempted from CEQA.
25. Landfills could potentially impact groundwater if not properly designed, maintained and/or operated. Groundwater and surface water can also be affected by water that percolates through waste materials and landfill gas that migrate into groundwater.
26. The preceeding impacts are mitigated or avoided by design measures to control erosion and assure containment of waste and leachate through the use of leachate removal systems.

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27. The Board notified the discharger and interested agencies and persons of its intent to issue waste discharge requirements for the discharger and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
28. The Board, in public meeting heard and considered all comments pertaining to the discharge.

**IT IS HEREBY ORDERED** that The City of San Leandro, their agents, successors and assigns shall meet the applicable provisions contained in Title 23, Division 3, Chapter 15 of the California Code of Regulations and Division 7 of the California Water Code and shall comply with the following:

**A. PROHIBITIONS**

1. Waste shall not be in contact with ponded water from any source whatsoever.
2. Waste shall not be deposited or stored at this site.
3. Leachate from waste and ponded water containing leachate or in contact with solid wastes shall not be discharged to waters of the State or of the United States.
4. The discharger, or any future owner or operator of the site, shall not cause the following conditions to exist in waters of the State at any place outside the waste management facility:
  - a. Surface Waters
    1. Floating, suspended, or deposited macroscopic particulate matter or foam.
    2. Bottom deposits or aquatic growths.
    3. Alteration of temperature, turbidity, or apparent color beyond natural background levels.
    4. Visible, floating, suspended or deposited oil or other products of petroleum origin.
    5. Toxic or other deleterious substances to be present in concentrations or quantities which may cause deleterious effects on aquatic biota, wildlife or waterfowl, or which render any of this unfit for human consumption either at levels created in the receiving waters or as a result of

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biological concentrations.

- b. Groundwater

The groundwater shall not be impacted as a result of the solid waste degradation.

**B. SPECIFICATIONS**

1. All reports pursuant to this order shall be prepared under the supervision of a registered civil engineer, California registered geologist or certified engineering geologist.
2. The site shall be protected from any washout or erosion of wastes or covering material and from inundation which could occur as a result of a 100 year 24 hour precipitation event, or as the result of flooding with a return frequency of 100 years.
3. Surface drainage from tributary areas and internal site drainage from surface or subsurface sources shall not contact or percolate through wastes during the life of the site.
4. The existing leachate control facility shall be maintained and remain operational as long as leachate is present and poses a threat to water quality.
5. All conveyance control facilities and hydraulic structures shall be maintained to ensure normal flow of liquid and to prevent hydraulic pressure buildup within the pipeline.
6. The discharger shall assure that the foundation of the site, the solid waste fill, and structures which control leachate, surface drainage, erosion and gas are constructed and maintained to withstand conditions generated during the maximum probable earthquake.
7. The facility's Leachate Collection and Removal System (LCRS) must be capable of creating an inward leachate gradient which shall prevent leachate migration offsite. The LCRS shall be inspected monthly or more frequently as necessary and any accumulated fluid shall be removed.
8. The exterior surfaces (cap) shall be graded to promote lateral runoff of precipitation and to ensure that ponding does not occur.

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9. The discharger shall maintain the waste management facility so as not to cause a statistically significant difference to exist between water quality at the compliance points and the background value. At any given time, the concentration limit for each constituent will be equal to the background value of that constituent as determined pursuant to Subsection 2550.5 Article 5 of Chapter 15.
10. The discharger shall analyze the samples from the existing leachate wells (GR1, GR2, GR3 & GR4) for parameters listed in Table A on a quarterly basis for a period of one year and semi-annually thereafter, to determine whether leachate poses a threat to groundwater quality. Monitoring shall thereafter continue on a semi-annual basis for the parameters detected in the leachate wells during the first four quarters of sampling.
11. The discharger shall install groundwater monitoring wells as stated in B.13., if any monitoring parameter listed in Table A is detected above maximum contaminant level in leachate wells. The samples from groundwater wells and the leachate wells shall be analyzed for the parameters listed in Table A and reports submitted on a quarterly basis to the RWQCB.
12. In the event of a release of a constituent of concern beyond the Point of Compliance, the site begins a Compliance Period (Sect. 2550.6(a)). During the Compliance Period, the discharger shall perform an Assessment Monitoring Program and a Corrective Action Program.
13. The discharger shall install monitoring wells at appropriate locations acceptable to the Executive Officer along the downgradient landfill boundary limits at the point of Compliance. At the minimum, four (4) downgradient wells (G1, G2, G3, G4) and one (1) upgradient well (G5A) shall be installed and screened in the sand lenses at the point of Compliance to monitor the shallow groundwater zones beneath the site.  
  
The discharger shall install any reasonable additional groundwater and leachate monitoring devices required to fulfill the terms of any Discharge Monitoring Program issued by the Executive officer.
14. Landfill gases shall be adequately vented, removed from the landfill, or otherwise controlled to minimize the danger of explosion, adverse health effects, nuisance conditions, or the impairment of beneficial uses of water due to migration through the vadose (unsaturated) zone.
15. The discharger shall maintain all devices or designed features, installed in accordance with this order such that they continue to operate as intended without interruption as

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provided for by the performance standards adopted by the California Integrated Waste Management Board.

16. The discharger shall provide a minimum of two surveyed permanent monuments near the landfill from which the location and elevation of wastes, containment structures, and monitoring facilities can be determined throughout the operation and post-closure maintenance period. These monuments shall be installed by a licensed land surveyor or registered civil engineer.
17. The Regional Board shall be notified immediately of any failure occurring in the waste management unit. Any failure which threatens the integrity of containment features or the landfill shall be promptly corrected after approval of the method and schedule by the Executive officer.
18. The discharger shall comply with all applicable provisions of Chapter 15 that are not specifically referred to in this Order.
19. The discharger shall maintain the facility so as to prevent a statistically significant increase in water quality parameters at points of compliance as provided in Section 2550.5.

**C PROVISIONS**

1. The discharger shall comply with all Prohibitions, Specifications and Provisions of this Order.
  2. The discharger shall submit quarterly/semi-annual monitoring reports in accordance with the attached Updated Discharge Monitoring Program, Parts A and B.
  3. The discharger shall submit appropriate detailed maps showing the following:
    - i. location of landfill in relation to facility
    - ii. location of leachate and groundwater monitoring wells
    - iii. topographic contours on a scale of 1 to 500 feet
    - iv. groundwater and leachate contours
    - v. gas extraction system
- REPORT DUE DATE: 3 MONTHS OF ADOPTION OF THIS ORDER**
4. The discharger shall submit gas monitoring results on a yearly basis.
  5. The discharger shall submit a detailed Post Earthquake Inspection and Corrective



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Action Plan acceptable to the Executive officer to be implemented in the event of any earthquake generating ground shaking of Richter Magnitude 7 or greater at or within 30 miles of the landfill. The report shall describe the containment features, and groundwater monitoring and leachate control facilities potentially impacted by the static and seismic deformations of the landfill. The plan shall provide for reporting results of the post earthquake inspection to the Board within 72 hours of the occurrence of the earthquake. Immediately after an earthquake event causing damage to the landfill structures, the corrective action plan shall be implemented and this Board shall be notified of any damage. The report shall be due within three months of adoption of this Order.

**REPORT DUE DATE: 3 MONTHS OF ADOPTION OF THIS ORDER**

6. All reports pursuant to these Provisions shall be prepared under the supervision of a registered civil engineer or certified engineering geologist.
7. The discharger shall submit a Contingency Plan to be instituted in the event of a surface leak or spill from the leachate facilities. The discharger shall give immediate notification to the San Francisco Bay Regional Water Quality Control Board, the Local Enforcement Agency (LEA), and the California Department of Toxic Substances Control. The discharger shall initiate its contingency action plan to stop and contain the migration of pollutants to receiving waters. The report shall be due within three months of adoption of this Order.

**REPORT DUE DATE: 3 MONTHS OF ADOPTION OF THIS ORDER**

8. The discharger shall file with the Regional Board Discharge Monitoring Reports performed according to any Discharge Monitoring Program issued by the Executive Officer.
9. The discharger shall immediately notify the Board of any flooding, equipment failure, slope failure, or other change in site conditions which could impair the integrity of waste or leachate containment facilities or precipitation and drainage control structures.

**REPORT DUE DATE: IMMEDIATE**

10. The discharger shall maintain a copy of this Order at the site so as to be available at all times to site operating personnel.
11. This Board considers the property owner and site operator to have continuing responsibility for correcting any problems which arise in the future as a result of the waste discharged or related operations.

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12. The discharger shall permit the Regional Board or its authorized representative, upon presentation of credentials:
  - a. Immediate entry upon the premises on which wastes are located or in which any required records are kept.
  - b. Access to copy any records required to be kept under the terms and conditions of this order.
  - c. Inspection of any treatment equipment, monitoring equipment, or monitoring methods required by this order or by any other California State Agency.
  - d. Sampling of any discharge or groundwater governed by this order.
13. The discharger shall prepare, implement and submit a Storm Water Pollution Prevention Plan in accordance with requirements specified in State Water Resources Control Board General Permit for Storm Water Discharges Associated with Industrial Activities (NPDES Permit No. CAS000001).
14. Copies of all correspondence, reports and documents pertaining to compliance with the Prohibitions, Specifications and Provisions of this Order, shall also be provided to the Environmental Health Services Division of Alameda County.
15. This requirements do not authorize commission of any act causing injury to the property of another or of the public; do not convey any property rights; do not remove liability under federal, state or local laws; and do not authorize the discharge of wastes.
16. The discharger shall comply with all applicable items of the attached "**Standard Provisions and Reporting Requirements**" or any amendments thereafter.
17. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be immediately forwarded to this office. To assume operation of this Order, the succeeding owner or operator must apply in writing to the Executive Officer requesting transfer of the Order. (Refer to Standard Provisions, referenced above). The request must contain the requesting entity's full legal name, the address and telephone number of the persons responsible for contact with the Board and statement. The statement shall comply with the signatory paragraph described in Standard

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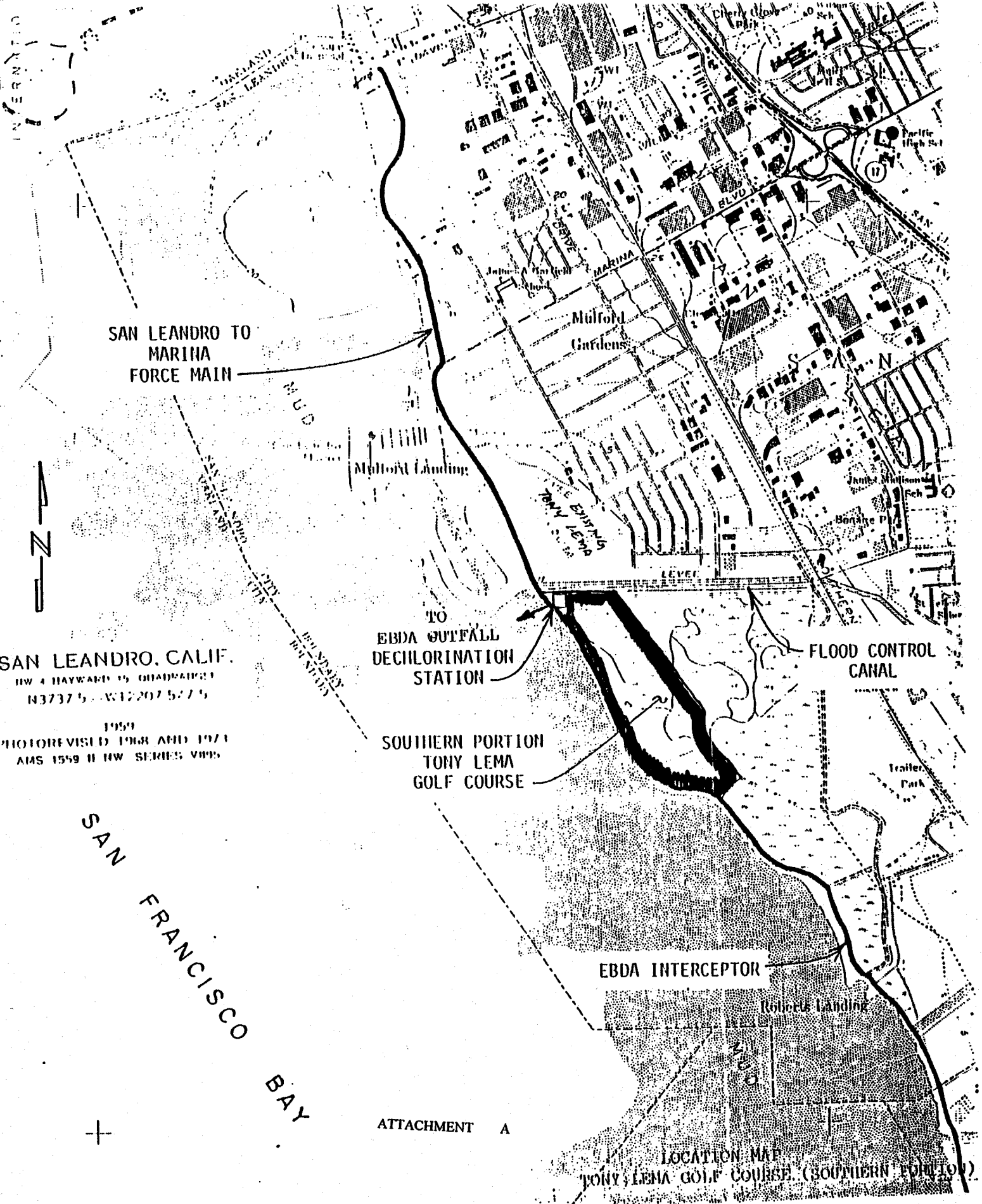
Provisions and state that the new owner or operator assumes full responsibility for this Order. Failure to submit the request shall be considered a discharge without requirements, a violation of the California Water Code.

18. This Order is subject to Board review and updating, as necessary, to comply with changing State and Federal laws, regulations, policies, or guidelines; changes in the Board's Basin Plan; or changes in the discharge characteristics.

I, Steven R. Ritchie, Executive Officer, do hereby certify that the foregoing is a full, complete, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on June 21, 1995.

  
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Steven R. Ritchie  
Executive Officer

Attachments: A. Site Location Map  
B. Facility Map  
C. Discharge Monitoring Program



SAN LEANDRO TO  
MARINA  
FORCE MAIN

TO  
EBDA OUTFALL  
DECHLORINATION  
STATION

SOUTHERN PORTION  
TONY LEMA  
GOLF COURSE

FLOOD CONTROL  
CANAL

EBDA INTERCEPTOR

Roberts Landing

SAN LEANDRO, CALIF.  
HW 4 HAYWARD 15 QUADRAHPT  
N37375 W122075275

1959  
PHOTOREVISED 1968 AND 1971  
AMS 1559 II HW SERIES VIII

SAN FRANCISCO BAY

ATTACHMENT A

LOCATION MAP  
TONY LEMA GOLF COURSE (SOUTHERN PORTION)



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

UPDATED  
DISCHARGE MONITORING PROGRAM

FOR

CITY OF SAN LEANDRO  
SAN LEANDRO TONY LEMA GOLF COURSE DISPOSAL SITE  
CLASS III SOLID WASTE DISPOSAL SITE  
SAN LEANDRO, ALAMEDA COUNTY

ORDER NO. 95-129

CONSISTS OF

PART A

AND

PART B

## **PART A**

### **A. GENERAL**

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No.73-16. This Discharge Monitoring Program is issued in accordance with Chapter 15, Article 5.

The principal purposes of a discharge monitoring program are: (1) to document compliance with waste discharge requirements and prohibitions established by the Board, (2) to facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge, (3) to develop or assist in the development of standards of performance, and toxicity standards, (4) to assist the discharger in complying with the requirements of Article 5, Chapter 15 as revised July 1, 1991.

### **B. SAMPLING AND ANALYTICAL METHODS**

Sample collection, storage, and analyses shall be performed according to the most recent version of EPA Standard Methods and in accordance with an approved sampling and analysis plan.

Water and waste analysis shall be performed by a laboratory approved for these analyses by the State of California. The director of the laboratory whose name appears on the certification shall supervise all analytical work in his/her laboratory and shall sign all reports of such work submitted to the Regional Board.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

### **C. DEFINITION OF TERMS**

1. A grab sample is a discrete sample collected at any time.
2. Receiving waters refers to any surface water which actually or potentially receives surface or groundwaters which pass over, through, or under waste materials or contaminated soils. In this case the groundwater beneath and adjacent to the landfill areas, the surface runoff from the site, Spring Branch are

considered receiving waters.

3. Standard observations refer to:

a. Receiving Waters

- 1) Floating and suspended materials of waste origin: presence or absence, source, and size of affected area.
- 2) Discoloration and turbidity: description of color, source, and size of affected area.
- 3) Evidence of odors, presence or absence, characterization, source, and distance of travel from source.
- 4) Evidence of beneficial use: presence of water associated wildlife.
- 5) Flow rate.
- 6) Weather conditions: wind direction and estimated velocity, total precipitation during the previous five days and on the day of observation.

b. Perimeter of the waste management unit.

- 1) Evidence of liquid leaving or entering the waste management unit, estimated size of affected area and flow rate. (Show affected area on map)
- 2) Evidence of odors, presence or absence, characterization, source, and distance of travel from source.
- 3) Evidence of erosion and/or daylighted refuse.

c. The waste management unit.

- 1) Evidence of ponded water at any point on the waste management facility.
- 2) Evidence of odors, presence or absence, characterization, source, and distance of travel from source.
- 3) Evidence of erosion and/or daylighted refuse.
- 4) Standard Analysis (SA) and measurements are listed on Table A (attached)

**D. SAMPLING, ANALYSIS, AND OBSERVATIONS**

The discharger is required to perform sampling, analyses, and observations in the following media:

1. Groundwater per Section 2550.7(b) and
2. Surface water per Section 2550.7(c)



and per the general requirements specified in Section 2550.7(e) of Article 5, Chapter 15.

**E. RECORDS TO BE MAINTAINED**

Written reports shall be maintained by the discharger or laboratory, and shall be retained for a minimum of five years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Board. Such records shall show the following for each sample:

1. Identity of sample and sample station number.
2. Date and time of sampling.
3. Date and time that analyses are started and completed, and name of the personnel performing the analyses.
4. Complete procedure used, including method of preserving the sample, and the identity and volumes of reagents used.
5. Calculation of results.
6. Results of analyses, and detection limits for each analysis.

**F. REPORTS TO BE FILED WITH THE BOARD**

1. Written detection monitoring reports shall be filed by the 15th day of the month following the report period. In addition an annual report shall be filed as indicated in F.3 below. The reports shall be comprised of the following:

**a. Letter of Transmittal**

A letter transmitting the essential points in each report should accompany each report. Such a letter shall include a discussion of any requirement violations found during the last report period, and actions taken or planned for correcting the violations. If the discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory. If no violations have occurred in the last report period this shall be stated in the letter of transmittal. Monitoring

reports and the letter transmitting the monitoring reports shall be signed by a principal executive officer at the level of vice president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates. The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true, complete, and correct.

- b. Each monitoring report shall include a compliance evaluation summary. The summary shall contain:
  - 1) A graphic description of the velocity and direction of groundwater flow under/around the waste management unit, based upon the past and present water level elevations and pertinent visual observations.
  - 2) The method and time of water level measurement, the type of pump used for purging, pump placement in the well; method of purging, pumping rate, equipment and methods used to monitor field pH, temperature, and conductivity during purging, calibration of the field equipment, results of the pH, temperature conductivity and turbidity testing, well recovery time, and method of disposing of the purge water.
  - 3) Type of pump used, pump placement for sampling, a detailed description of the sampling procedure; number and description of equipment, field and travel blanks; number and description of duplicate samples; type of sample containers and preservatives used, the date and time of sampling, the name and qualifications of the person actually taking the samples, and any other observations.
- c. A map or aerial photograph shall accompany each report showing observation and monitoring station locations.
- d. Laboratory statements of results of analyses specified in Part B must be included in each report. The director of the laboratory whose name appears on the laboratory certification shall supervise all analytical work in his/her laboratory and shall sign all reports of such work submitted to the Board.
  - 1) The methods of analyses and detection limits must be appropriate for the expected concentrations. Specific methods of analyses must be identified. If methods

other than EPA approved methods or Standard Methods are used, the exact methodology must be submitted for review and approved by the Executive Officer prior to use.

- 2) In addition to the results of the analyses, laboratory quality assurance/quality control (QA/QC) information must be included in the monitoring report. The laboratory QA/QC information should include the method, equipment and analytical detection limits; the recovery rates; an explanation for any recovery rate that is less than 80%; the results of equipment and method blanks; the results of spiked and surrogate samples; the frequency of quality control analysis; and the name and qualifications of the person(s) performing the analyses.
- e. An evaluation of the effectiveness of the leachate monitoring or control facilities, which includes an evaluation of leachate buildup within the disposal units, a summary of leachate volumes removed from the units, and a discussion of the leachate disposal methods utilized.
- f. A summary and certification of completion of all standard observations for the waste management unit, the perimeter of the waste management unit, and the receiving waters.

## 2. CONTINGENCY REPORTING

- a. A report shall be made by telephone of any seepage from the disposal area immediately after it is discovered. A written report shall be filed with the Board within five days thereafter. This report shall contain the following information:
  - 1) a map showing the location(s) of discharge;
  - 2) approximate flow rate;
  - 3) nature of effects; (i.e all pertinent observations and analyses); and
  - 4) corrective measures underway or proposed.
- b. A report shall be made in writing to the Board within seven days of determining that a statistically significant difference occurred between a down gradient sample and California and Federal Drinking Water Standards (Maximum Contaminant Levels, MCLs).

Notification shall indicate what MCLs has/have been exceeded. The discharger shall immediately resample at the compliance point where this difference has been found and re-analyze.

- c. If resampling and analysis confirms the earlier finding of a statistically significant difference between monitoring results and MCLs the discharger must submit to the Board an amended Report of Waste Discharge as specified in Section 2550.8(k)(5) for establishment of an Evaluation Monitoring Program (EMP) meeting the requirements of Section 2550.9 of Chapter 15.
- d. Within 180 days of determining statistically significant evidence of a release, submit to the regional board an engineering feasibility study for a Corrective Action Program (CAP) necessary to meet the requirements of Section 2550.10. At a minimum, the feasibility study shall contain a detailed description of the corrective action measures that could be taken to achieve background concentrations for all constituents of concern.

### 3. REPORTING

By January 31 of each year the discharger shall submit an annual report to the Board covering the previous calendar year. This report shall contain:

- a. Tabular and graphical summaries of the monitoring data obtained during the previous year; the report should be accompanied by a 5<sup>1</sup>/<sub>4</sub>" computer data disk, MS-DOS ASCII format, tabulating the year's data.
- b. A comprehensive discussion of the compliance record, and the corrective actions taken or planned which may be needed to bring the discharger into full compliance with the waste discharge requirements.
- c. A map showing the area, if any, in which filling has been completed during the previous calendar year.
- d. A written summary of the groundwater analyses indicating any change in the quality of the groundwater.
- e. An evaluation of the effectiveness of the leachate monitoring/ control facilities, which includes an evaluation of leachate buildup within the disposal

units, a summary of leachate volumes removed from the units, and a discussion of the leachate disposal methods utilized.

4. WELL LOGS

A boring log and a monitoring well construction log shall be submitted for each sampling well established for this monitoring program, as well as a report of inspection or certification that each well has been constructed in accordance with the construction standards of the Department of Water Resources. These shall be submitted within 30 days after well installation.

**Part B**

**1. DESCRIPTION OF OBSERVATION STATIONS AND SCHEDULE OF OBSERVATIONS**

**A. ON-SITE OBSERVATIONS - Report Quarterly/Semi-annual**

STATION	DESCRIPTION	OBSERVATIONS	FREQUENCY
P-1 thru P-'n' (per- imeter)	Located at equidistant intervals not exceeding 1000 feet around the perimeter of the waste management unit.	Standard observations for the perimeter.	Quarterly
L-1 thru L-'n'	At each point of discharge. Include a map indicating locations of discharge(s)	Standard test as outlined in on Table A.	Quarterly

**B. LEACHATE, GROUND WATER and SURFACE WATER MONITORING -  
 Report Quarterly/Semi-annual**

Groundwater and surface water shall be monitored as  
 outlined below and on Table A (Attached) and shown on  
 Figure A (Attached).

**Monitoring Points:**

	Downgradient Point	Upgradient Point
Surface Water	SW3, SW4 (downstream)	SW5, SW6 (upstream)
Groundwater	G1, G2, G3, G4,	G5A
Debris zone (Leachate)	GR1, GR2, GR4	GR3


C. FACILITIES MONITORING

The Discharger shall inspect all facilities to ensure proper and safe operation once per quarter and report semi-annually. The facilities to be monitored shall include, but not be limited to:

- a. Leachate Collection and Removal System
- b. Leachate handling facilities
- c. Perimeter diversion channels
- d. Leachate Management facilities and secondary containment.

I, Steven R. Ritchie, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedures set forth in this Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in this Board's Order No. 95-129.
2. Is effective on the date shown below.
3. May be reviewed or modified at any time subsequent to the effective date, upon written notice from the Executive Officer.

  
\_\_\_\_\_  
Steven R. Ritchie  
Executive Officer

Date Ordered: June 21, 1995

Attachment:     Figure A - Site Map  
                  Table A - Schedule for Sampling, Measurement, and  
                  Analysis

Table A - Discharge Monitoring Plan, List of Analytical Parameters

Parameter	Method	Frequency	Reference
Water elevation level	Field	Semi-annual	1
Temperature	Field	Semi-annual	1
Leachate elevation level	Field	Semi-annual	1
pH	9040	Semi-annual	3
Turbidity	Field	Semi-annual	1
Nitrate nitrogen	9200	Semi-annual	3
1,1,1-Trichloromethane	8010/8020	Semi-annual	3
Total organic carbon	415.1	Semi-annual	2
Benzene	8010/8020	Semi-annual	3
Chlorobenzene	8010/8020	Semi-annual	3
1,4 Dichlorobenzene	8010/8020	Semi-annual	3
Trichloroethylene	8010/8020	Semi-annual	3
Vinyl chloride	8010/8020	Semi-annual	3
Arsenic	7060	Semi-annual	3
Silver	6010	Semi-annual	3(b)
Cadmium	6010	Semi-annual	3
Mercury	7470	Semi-annual	3
Lead	6010	Semi-annual	3
Selenium	7,740.00	Semi-annual	3

1. Not Applicable
2. Method for Chemical Analysis of Water and Wastes, EPA600/4/79/029, revised March 1983.
3. EPA SW-846; (b)surface water samples

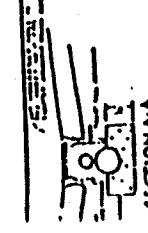
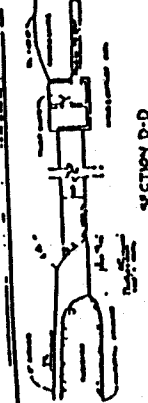
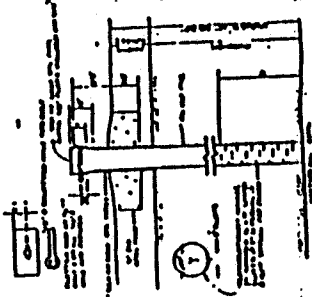


1. The purpose of this drawing is to show the location of the various structures and equipment within the site.

2. The drawing is a plan view of the site, showing the layout of the various structures and equipment.

3. The drawing is a plan view of the site, showing the layout of the various structures and equipment.

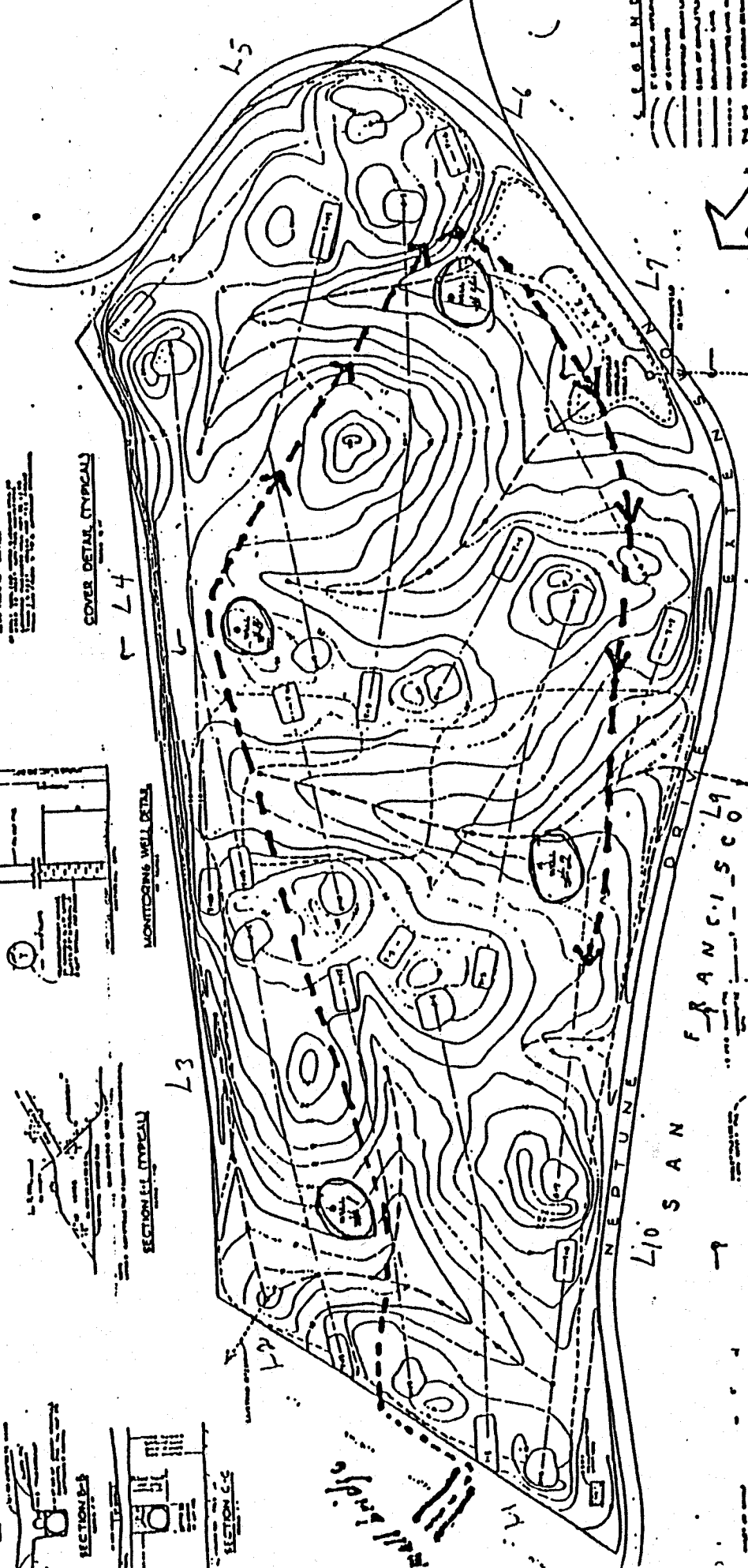
ITEM	DESCRIPTION	QUANTITY	UNIT
1	Structure A	1	Structure
2	Structure B	1	Structure
3	Structure C	1	Structure
4	Structure D	1	Structure
5	Structure E	1	Structure



COVER DETAIL (TYPICAL)

MONITORING WELL DETAIL

SECTION E-E (TYPICAL)



- 1. Contour lines
- 2. Structure outlines
- 3. Road centerlines
- 4. Utility lines
- 5. Elevation spot heights
- 6. Spot heights of structures
- 7. Spot heights of terrain
- 8. Spot heights of water
- 9. Spot heights of structures
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- 99. Spot heights of structures
- 100. Spot heights of terrain

ITEM	DESCRIPTION	QUANTITY	UNIT
1	Structure A	1	Structure
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5	Structure E	1	Structure

ATTACHMENT B

SURFACE DRAINAGE SYSTEM DETAIL